

An ACI Standard

Type ES (Epoxy Slurry) Polymer Overlay for Bridge and Parking Garage Decks—Specification

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This Specification covers epoxy slurry (ES) polymer overlay for bridge and parking garage decks. Type ES polymer overlay incorporates a low-modulus epoxy binder, fillers, and selected aggregate to produce a flexible, skid-resistant, and low-permeability overlay. The overlay may be used for both new construction and rehabilitation of existing structures. The overlay is placed by applying the mixed epoxy binder and filler to the surface and broadcasting aggregate. This Specification includes requirements for epoxy resin, fillers, aggregates, storage and handling, surface preparation, surface profile, mixing, placement, quality control, and quality assurance.

Keywords: bridge decks; epoxy; low permeability; parking garage decks; polymer overlay; slurry; surface preparation.

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